

MIMICS

The image features a blue gradient background. In the center, the word "MIMICS" is written in a large, white, bold, sans-serif font. On the right side, there are several thin, white, parallel lines that originate from the bottom right and extend towards the top right, creating a sense of motion or a stylized graphic element.



FİKRİMİZ NE

GELECEKTE ÜZERİNE
NELER KOYABİLİRİZ ?

Mağazaya gelen kişilerin,

- Yaş gruplarına göre duygu durumları,
- Yaşlarına göre sınıflandırılması,
- Reyon bazlı duygu analizi
- Girişteki duygu analizleriyle çıkıştaki duygu analizinin kıyaslanması

DATASET



S010_006_01594
615.png



S010_006_01594
616.png



S010_006_01594
617.png



S010_006_01594
618.png



S010_006_01594
619.png



S010_006_01594
620.png



S010_006_01594
621.png



S010_006_01594
622.png



S010_006_01594
623.png



S010_006_01594
624.png



S010_006_01594



S010_006_01594



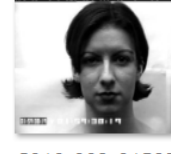
S010_006_01594



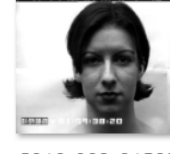
S010_006_01594



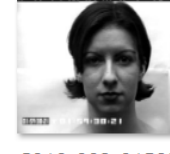
S010_006_01594



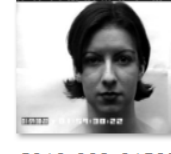
S010_002_01593
819.png



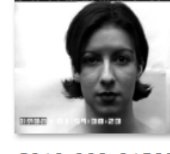
S010_002_01593
820.png



S010_002_01593
821.png



S010_002_01593
822.png



S010_002_01593
823.png



S010_002_01593
824.png



S010_002_01593
825.png



S010_002_01593
826.png



S010_002_01593
827.png



S010_002_01593
828.png



S010_002_01593
829.png



S010_002_01593
900.png



S010_002_01593
901.png



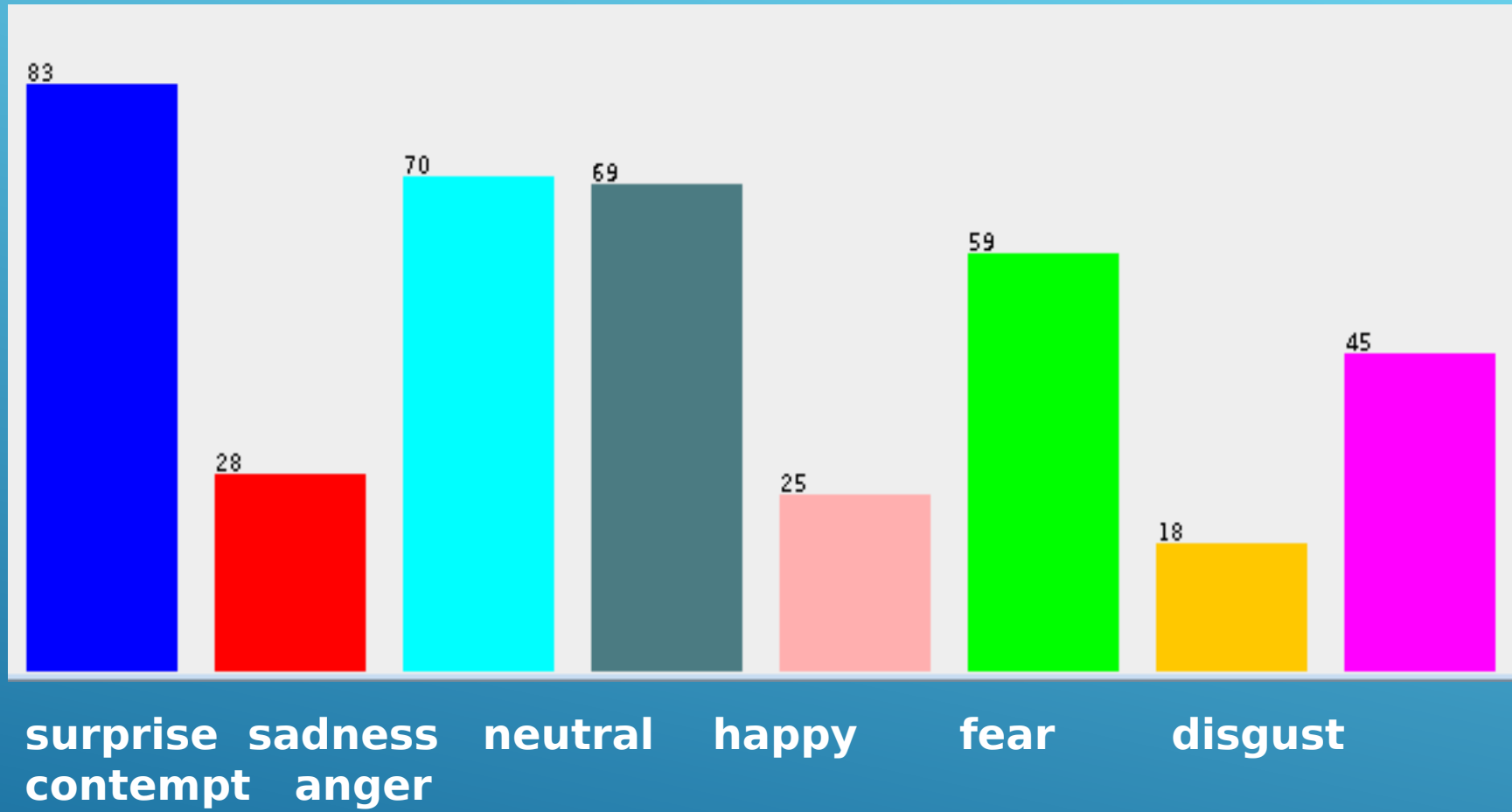
S010_002_01593
902.png

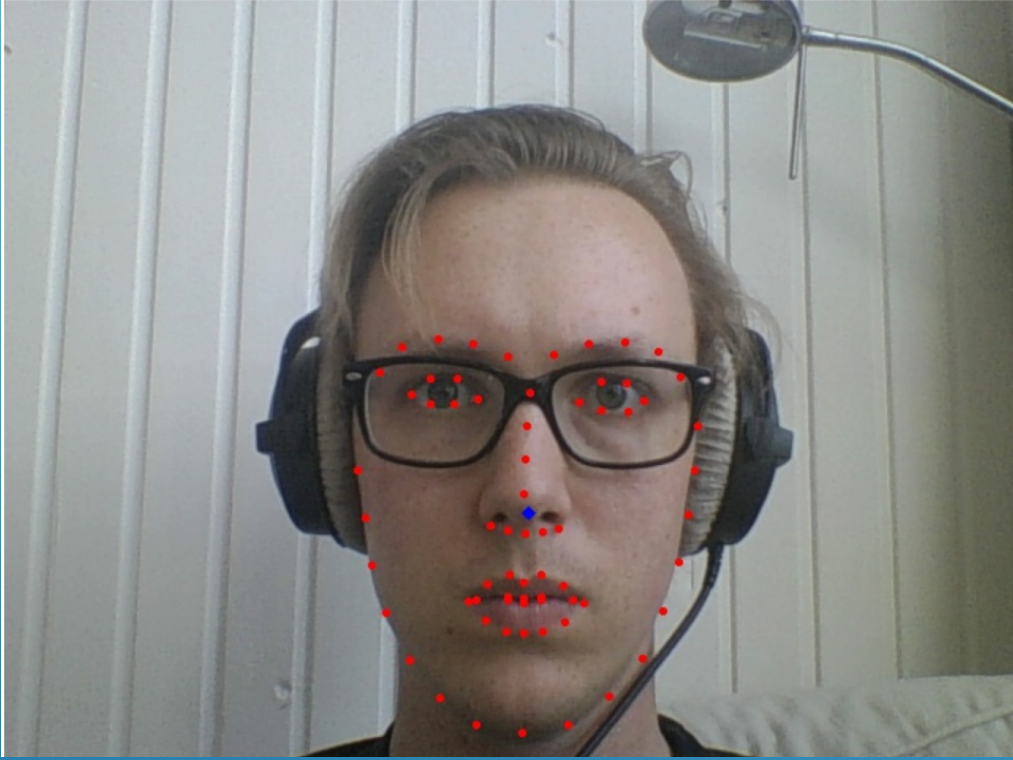
DATASET

<http://www.consortium.rh.cmu.edu/data/ck/>

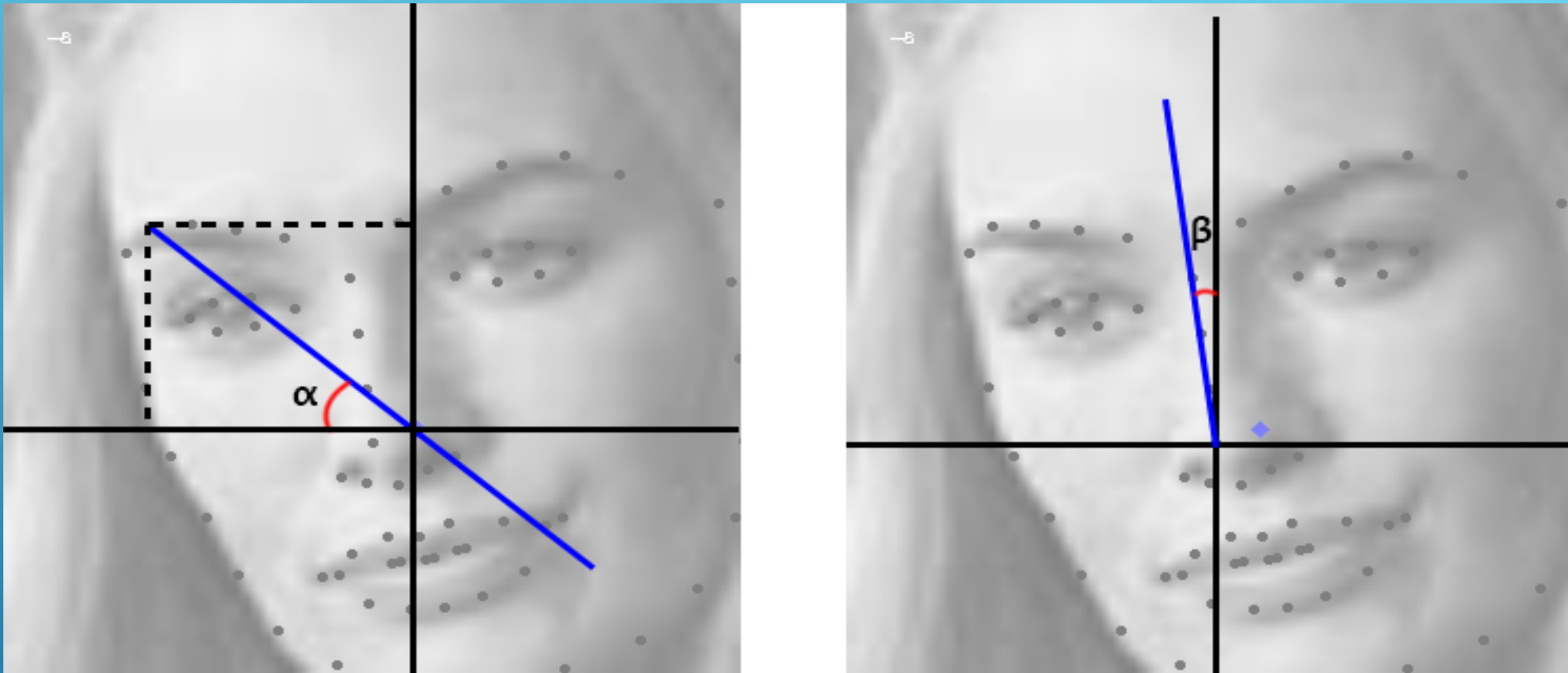
398 image files- etiketli data

**Etiketli Duygu Durumları: Neutral,
anger , contempt , disgust, fear,
happy , sadness , surprise**





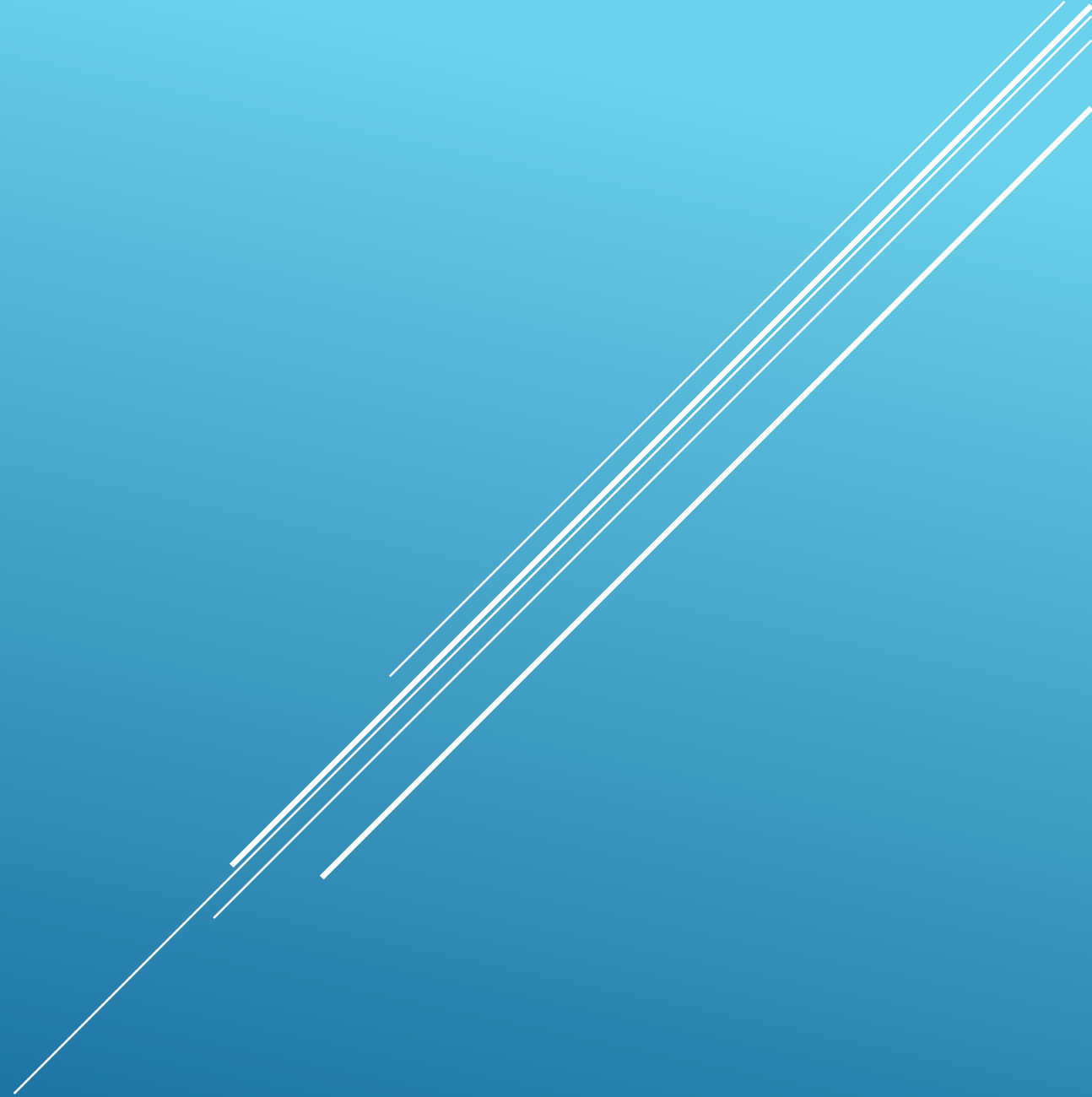
VEKTÖR İŞLEMİ

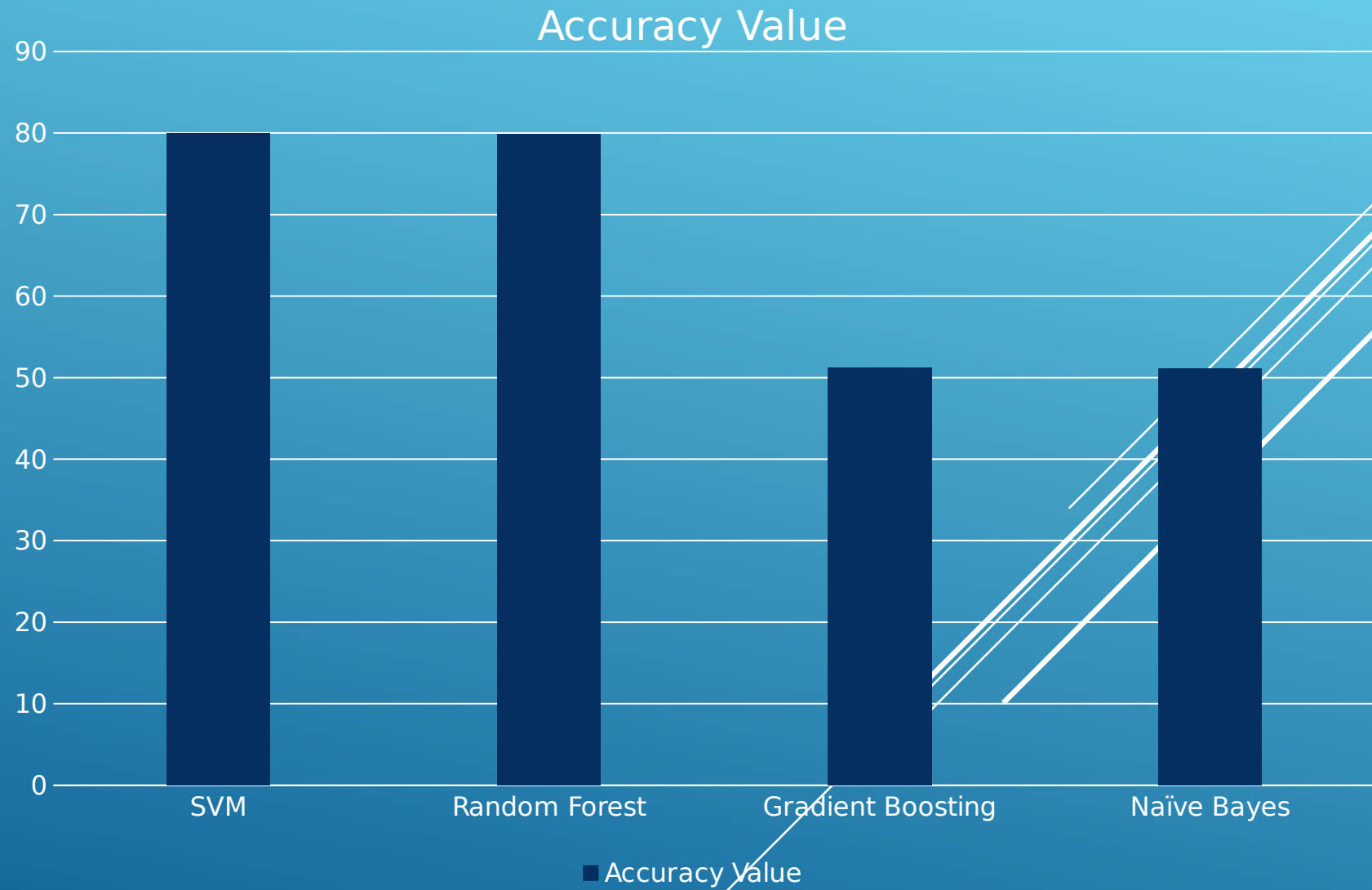


$$(\text{MATH.ATAN2}(Y, X) * 360) / (2 * \text{MATH.PI})$$

Veri setimizi makine öğrenmesi algoritmalarını kullanmaya uygun hale getirmek için VggFace adında bir tool yardımıyla landmarkları çıkarttık.

KULLANDIĞIMIZ ALGORİTMALAR





```
Learning rate: 0.1
```

```
Accuracy score (training): 0.865
```

```
Accuracy score (validation): 51.250
```

```
Confusion Matrix:
```

```
[[ 1  0  2  0  0  4  0  0]
 [ 2  1  0  0  0  1  0  0]
 [ 0  1  6  0  0  1  0  0]
 [ 0  0  0  1  5  0  0  2]
 [ 0  0  1  0  9  0  0  0]
 [ 3  3  1  1  0  5  2  0]
 [ 0  2  1  0  0  2  0  0]
 [ 2  0  0  0  0  2  1 18]]
```

```
Classification Report
```

	precision	recall	f1-score	support
anger	0.12	0.14	0.13	7
contempt	0.14	0.25	0.18	4
disgust	0.55	0.75	0.63	8
fear	0.50	0.12	0.20	8
happy	0.64	0.90	0.75	10
neutral	0.33	0.33	0.33	15
sadness	0.00	0.00	0.00	5
surprise	0.90	0.78	0.84	23
micro avg	0.51	0.51	0.51	80
macro avg	0.40	0.41	0.38	80
weighted avg	0.52	0.51	0.50	80

GRADIENT BOOSTING ALGORITHM

ACCURACY SCORE

Beyzanur BEKTAŞ

beyzanurbektas9@hotmail.com

İrem ŞAHİN

sainirem@gmail.com

Berk Sudan

berk.sudan.96@gmail.com

TEŞEKKÜRLER